

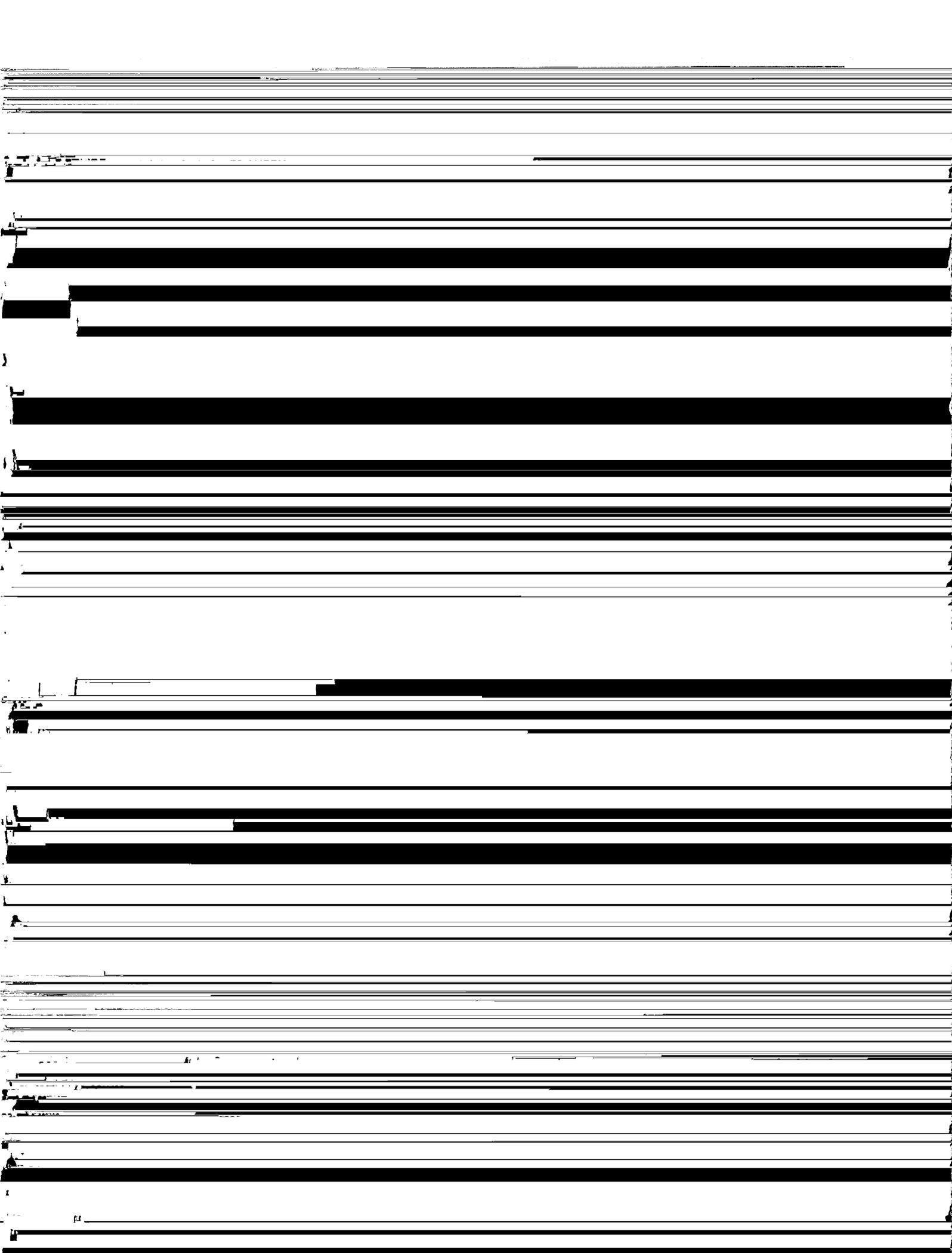
Submit original with signatures + 1 copy + electronic copy to Faculty Services

see <http://www.purdue.edu/faculty-services>

TRIAL COURSE OR NEW COURSE

Course Title	Section	Days	Time	Room	Faculty
BIOL 101	001	M	8:00-9:00	100	Dr. Smith
BIOL 101	002	T	9:00-10:00	100	Dr. Smith
BIOL 101	003	W	10:00-11:00	100	Dr. Smith
BIOL 101	004	Th	11:00-12:00	100	Dr. Smith
BIOL 101	005	F	12:00-1:00	100	Dr. Smith
BIOL 101	006	Sa	1:00-2:00	100	Dr. Smith
BIOL 101	007	Su	2:00-3:00	100	Dr. Smith
BIOL 101	008	Mo	3:00-4:00	100	Dr. Smith
BIOL 101	009	Tu	4:00-5:00	100	Dr. Smith
BIOL 101	010	W	5:00-6:00	100	Dr. Smith
BIOL 101	011	Th	6:00-7:00	100	Dr. Smith
BIOL 101	012	F	7:00-8:00	100	Dr. Smith
BIOL 101	013	Sa	8:00-9:00	100	Dr. Smith
BIOL 101	014	Su	9:00-10:00	100	Dr. Smith
BIOL 101	015	Mo	10:00-11:00	100	Dr. Smith
BIOL 101	016	Tu	11:00-12:00	100	Dr. Smith
BIOL 101	017	W	12:00-1:00	100	Dr. Smith
BIOL 101	018	Th	1:00-2:00	100	Dr. Smith
BIOL 101	019	F	2:00-3:00	100	Dr. Smith
BIOL 101	020	Sa	3:00-4:00	100	Dr. Smith
BIOL 101	021	Su	4:00-5:00	100	Dr. Smith
BIOL 101	022	Mo	5:00-6:00	100	Dr. Smith
BIOL 101	023	Tu	6:00-7:00	100	Dr. Smith
BIOL 101	024	W	7:00-8:00	100	Dr. Smith
BIOL 101	025	Th	8:00-9:00	100	Dr. Smith
BIOL 101	026	F	9:00-10:00	100	Dr. Smith
BIOL 101	027	Sa	10:00-11:00	100	Dr. Smith
BIOL 101	028	Su	11:00-12:00	100	Dr. Smith
BIOL 101	029	Mo	12:00-1:00	100	Dr. Smith
BIOL 101	030	Tu	1:00-2:00	100	Dr. Smith
BIOL 101	031	W	2:00-3:00	100	Dr. Smith
BIOL 101	032	Th	3:00-4:00	100	Dr. Smith
BIOL 101	033	F	4:00-5:00	100	Dr. Smith
BIOL 101	034	Sa	5:00-6:00	100	Dr. Smith
BIOL 101	035	Su	6:00-7:00	100	Dr. Smith
BIOL 101	036	Mo	7:00-8:00	100	Dr. Smith
BIOL 101	037	Tu	8:00-9:00	100	Dr. Smith
BIOL 101	038	W	9:00-10:00	100	Dr. Smith
BIOL 101	039	Th	10:00-11:00	100	Dr. Smith
BIOL 101	040	F	11:00-12:00	100	Dr. Smith
BIOL 101	041	Sa	12:00-1:00	100	Dr. Smith
BIOL 101	042	Su	1:00-2:00	100	Dr. Smith
BIOL 101	043	Mo	2:00-3:00	100	Dr. Smith
BIOL 101	044	Tu	3:00-4:00	100	Dr. Smith
BIOL 101	045	W	4:00-5:00	100	Dr. Smith
BIOL 101	046	Th	5:00-6:00	100	Dr. Smith
BIOL 101	047	F	6:00-7:00	100	Dr. Smith
BIOL 101	048	Sa	7:00-8:00	100	Dr. Smith
BIOL 101	049	Su	8:00-9:00	100	Dr. Smith
BIOL 101	050	Mo	9:00-10:00	100	Dr. Smith
BIOL 101	051	Tu	10:00-11:00	100	Dr. Smith
BIOL 101	052	W	11:00-12:00	100	Dr. Smith
BIOL 101	053	Th	12:00-1:00	100	Dr. Smith
BIOL 101	054	F	1:00-2:00	100	Dr. Smith
BIOL 101	055	Sa	2:00-3:00	100	Dr. Smith
BIOL 101	056	Su	3:00-4:00	100	Dr. Smith
BIOL 101	057	Mo	4:00-5:00	100	Dr. Smith
BIOL 101	058	Tu	5:00-6:00	100	Dr. Smith
BIOL 101	059	W	6:00-7:00	100	Dr. Smith
BIOL 101	060	Th	7:00-8:00	100	Dr. Smith
BIOL 101	061	F	8:00-9:00	100	Dr. Smith
BIOL 101	062	Sa	9:00-10:00	100	Dr. Smith
BIOL 101	063	Su	10:00-11:00	100	Dr. Smith
BIOL 101	064	Mo	11:00-12:00	100	Dr. Smith
BIOL 101	065	Tu	12:00-1:00	100	Dr. Smith
BIOL 101	066	W	1:00-2:00	100	Dr. Smith
BIOL 101	067	Th	2:00-3:00	100	Dr. Smith
BIOL 101	068	F	3:00-4:00	100	Dr. Smith
BIOL 101	069	Sa	4:00-5:00	100	Dr. Smith
BIOL 101	070	Su	5:00-6:00	100	Dr. Smith
BIOL 101	071	Mo	6:00-7:00	100	Dr. Smith
BIOL 101	072	Tu	7:00-8:00	100	Dr. Smith
BIOL 101	073	W	8:00-9:00	100	Dr. Smith
BIOL 101	074	Th	9:00-10:00	100	Dr. Smith
BIOL 101	075	F	10:00-11:00	100	Dr. Smith
BIOL 101	076	Sa	11:00-12:00	100	Dr. Smith
BIOL 101	077	Su	12:00-1:00	100	Dr. Smith
BIOL 101	078	Mo	1:00-2:00	100	Dr. Smith
BIOL 101	079	Tu	2:00-3:00	100	Dr. Smith
BIOL 101	080	W	3:00-4:00	100	Dr. Smith
BIOL 101	081	Th	4:00-5:00	100	Dr. Smith
BIOL 101	082	F	5:00-6:00	100	Dr. Smith
BIOL 101	083	Sa	6:00-7:00	100	Dr. Smith
BIOL 101	084	Su	7:00-8:00	100	Dr. Smith
BIOL 101	085	Mo	8:00-9:00	100	Dr. Smith
BIOL 101	086	Tu	9:00-10:00	100	Dr. Smith
BIOL 101	087	W	10:00-11:00	100	Dr. Smith
BIOL 101	088	Th	11:00-12:00	100	Dr. Smith
BIOL 101	089	F	12:00-1:00	100	Dr. Smith
BIOL 101	090	Sa	1:00-2:00	100	Dr. Smith
BIOL 101	091	Su	2:00-3:00	100	Dr. Smith
BIOL 101	092	Mo	3:00-4:00	100	Dr. Smith
BIOL 101	093	Tu	4:00-5:00	100	Dr. Smith
BIOL 101	094	W	5:00-6:00	100	Dr. Smith
BIOL 101	095	Th	6:00-7:00	100	Dr. Smith
BIOL 101	096	F	7:00-8:00	100	Dr. Smith
BIOL 101	097	Sa	8:00-9:00	100	Dr. Smith
BIOL 101	098	Su	9:00-10:00	100	Dr. Smith
BIOL 101	099	Mo	10:00-11:00	100	Dr. Smith
BIOL 101	100	Tu	11:00-12:00	100	Dr. Smith

Course Title	Section	Days	Time	Room	Faculty
BIOL 101	101	M	8:00-9:00	100	Dr. Smith
BIOL 101	102	T	9:00-10:00	100	Dr. Smith
BIOL 101	103	W	10:00-11:00	100	Dr. Smith
BIOL 101	104	Th	11:00-12:00	100	Dr. Smith
BIOL 101	105	F	12:00-1:00	100	Dr. Smith
BIOL 101	106	Sa	1:00-2:00	100	Dr. Smith
BIOL 101	107	Su	2:00-3:00	100	Dr. Smith
BIOL 101	108	Mo	3:00-4:00	100	Dr. Smith
BIOL 101	109	Tu	4:00-5:00	100	Dr. Smith
BIOL 101	110	W	5:00-6:00	100	Dr. Smith
BIOL 101	111	Th	6:00-7:00	100	Dr. Smith
BIOL 101	112	F	7:00-8:00	100	Dr. Smith
BIOL 101	113	Sa	8:00-9:00	100	Dr. Smith
BIOL 101	114	Su	9:00-10:00	100	Dr. Smith
BIOL 101	115	Mo	10:00-11:00	100	Dr. Smith
BIOL 101	116	Tu	11:00-12:00	100	Dr. Smith
BIOL 101	117	W	12:00-1:00	100	Dr. Smith
BIOL 101	118	Th	1:00-2:00	100	Dr. Smith
BIOL 101	119	F	2:00-3:00	100	Dr. Smith
BIOL 101	120	Sa	3:00-4:00	100	Dr. Smith
BIOL 101	121	Su	4:00-5:00	100	Dr. Smith
BIOL 101	122	Mo	5:00-6:00	100	Dr. Smith
BIOL 101	123	Tu	6:00-7:00	100	Dr. Smith
BIOL 101	124	W	7:00-8:00	100	Dr. Smith
BIOL 101	125	Th	8:00-9:00	100	Dr. Smith
BIOL 101	126	F	9:00-10:00	100	Dr. Smith
BIOL 101	127	Sa	10:00-11:00	100	Dr. Smith
BIOL 101	128	Su	11:00-12:00	100	Dr. Smith
BIOL 101	129	Mo	12:00-1:00	100	Dr. Smith
BIOL 101	130	Tu	1:00-2:00	100	Dr. Smith
BIOL 101	131	W	2:00-3:00	100	Dr. Smith
BIOL 101	132	Th	3:00-4:00	100	Dr. Smith
BIOL 101	133	F	4:00-5:00	100	Dr. Smith
BIOL 101	134	Sa	5:00-6:00	100	Dr. Smith
BIOL 101	135	Su	6:00-7:00	100	Dr. Smith
BIOL 101	136	Mo	7:00-8:00	100	Dr. Smith
BIOL 101	137	Tu	8:00-9:00	100	Dr. Smith
BIOL 101	138	W	9:00-10:00	100	Dr. Smith
BIOL 101	139	Th	10:00-11:00	100	Dr. Smith
BIOL 101	140	F	11:00-12:00	100	Dr. Smith
BIOL 101	141	Sa	12:00-1:00	100	Dr. Smith
BIOL 101	142	Su	1:00-2:00	100	Dr. Smith
BIOL 101	143	Mo	2:00-3:00	100	Dr. Smith
BIOL 101	144	Tu	3:00-4:00	100	Dr. Smith
BIOL 101	145	W	4:00-5:00	100	Dr. Smith
BIOL 101	146	Th	5:00-6:00	100	Dr. Smith
BIOL 101	147	F	6:00-7:00	100	Dr. Smith
BIOL 101	148	Sa	7:00-8:00	100	Dr. Smith
BIOL 101	149	Su	8:00-9:00	100	Dr. Smith
BIOL 101	150	Mo	9:00-10:00	100	Dr. Smith
BIOL 101	151	Tu	10:00-11:00	100	Dr. Smith
BIOL 101	152	W	11:00-12:00	100	Dr. Smith
BIOL 101	153	Th	12:00-1:00	100	Dr. Smith
BIOL 101	154	F	1:00-2:00	100	Dr. Smith
BIOL 101	155	Sa	2:00-3:00	100	Dr. Smith
BIOL 101	156	Su	3:00-4:00	100	Dr. Smith
BIOL 101	157	Mo	4:00-5:00	100	Dr. Smith
BIOL 101	158	Tu	5:00-6:00	100	Dr. Smith
BIOL 101	159	W	6:00-7:00	100	Dr. Smith
BIOL 101	160	Th	7:00-8:00	100	Dr. Smith
BIOL 101	161	F	8:00-9:00	100	Dr. Smith
BIOL 101	162	Sa	9:00-10:00	100	Dr. Smith
BIOL 101	163	Su	10:00-11:00	100	Dr. Smith
BIOL 101	164	Mo	11:00-12:00	100	Dr. Smith
BIOL 101	165	Tu	12:00-1:00	100	Dr. Smith
BIOL 101	166	W	1:00-2:00	100	Dr. Smith
BIOL 101	167	Th	2:00-3:00	100	Dr. Smith
BIOL 101	168	F	3:00-4:00	100	Dr. Smith
BIOL 101	169	Sa	4:00-5:00	100	Dr. Smith
BIOL 101	170	Su	5:00-6:00	100	Dr. Smith
BIOL 101	171	Mo	6:00-7:00	100	Dr. Smith
BIOL 101	172	Tu	7:00-8:00	100	Dr. Smith
BIOL 101	173	W	8:00-9:00	100	Dr. Smith
BIOL 101	174	Th	9:00-10:00	100	Dr. Smith
BIOL 101	175	F	10:00-11:00	100	Dr. Smith
BIOL 101	176	Sa</			



RESTRICTIONS ON ENROLLMENT (if any)

14. PREREQUISITES

Completion of DEVM 105 or placement in higher

These will be *required* before the student is allowed to enroll in the course.

15. SPECIAL RESTRICTIONS, CONDITIONS

16. PROPOSED COURSE FEES

\$100 on campus
\$250 off campus

[Illegible text due to heavy digital noise and corruption. The text appears to be a list or series of entries, but the characters are mostly unrecognizable.]

Don't know

11/11/11

[Illegible text due to heavy digital noise and corruption.]

11/11/11

11

[Illegible text due to heavy digital noise and corruption. The text appears to be a list or series of entries, but the characters are mostly unrecognizable.]

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Date

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Signature, Dean, College/School of:

--

ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at:
<http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/>
The Faculty Senate curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course (or changes to it) may be denied.

SYLLABUS CHECKLIST FOR ALL UAF COURSES

During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout

NUMBER: CHEM 114Y (on campus CBN: TBD; Distance CBN: TBD)

CREDITS: 3
PREREQUISITES: DEVM 105 or higher placement

ecosystem health.

Evaluate of what reported water quality

to be from across the state and internet data to assess

In order to use the available data to assess the health of a river or stream, it is necessary to



will comprise 2 on-campus and 1 distance students) will generate lab-based replicate data sets of surface water quality data from communities across the state. Student groups will work closely and engage in peer mentoring (some students will develop expertise on the field site while others develop expertise in instrumentation) and build a community of learners across the state of Alaska

COURSE SCHEDULE

See attached.

COURSE POLICIES

Successful timely completion of this course is dependent on

- 1. The student must attend all lab sessions.
- 2. The student must complete all lab reports.
- 3. The student must pass the lab exam.

- Safety hazards, particularly:
 - Data interpretation and statistical observations
 - Neutralization of acids and bases

'Week 2 – Air Quality

Reading: Environmental Science, Ch 3, 25

Case study: Bear Trouble

Case 3.1: Modeling air quality with a box model

• PSPIT modeling of air plumes

• NH_3 from road dust

Case study: PCBs in salmon causing accumulation in spawning lake sediments

Lab 7: Contaminant Partitioning

- Contaminant partitioning in the environment

Week 8– Weathering and Soil Formation

Reading: Environmental Science, Ch 19, 23

Case study- How permanent is permafrost?

Lab 8: Weathering and Soil Formation

- Rocks into soil
- Exploring Alaskan soils

Reading: Environmental Science, Ch 24

Case study – Pebble mine: Tension between mineral recovery, fishing, and community health

Lab 9: Soil Quality and Contamination

- Soil contamination
- Treating acid mine drainage

Week 10 – Environmental Microbiology I

Reading: Environmental Science, Ch 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

CNSM committee comments on CHEM 111X Introduction to Environmental Chemistry of the Arctic

This proposal is to make CHEM 111X a new core course in the Chemistry department. The course has a split local-distance delivery format and is a lab course. The course is currently being delivered as a trial course Fall 2015, which is its first trial offering. Although approved last year as a trial course, the CNSM curriculum committee has a few concerns about the new course proposal and core designation.

Major comments:

- 1) A core designation is requested for this course, but it is only 3 credits. Core science courses

3) How is the distance lab component currently working in the trial semester? Are the students able to receive, unpack, and employ their kits successfully in the distance environment? Are they functioning well performing the lab activities on their own?

Dr. Conrad and myself collaborated with eScience Labs to generate high quality

experiments, a 166-pg lab manual, and a beautiful lab kit for distance students. Students have received the kits, and been using them without trouble to perform the lab experiments. We have been available to troubleshoot during the on-campus lab time as well as via email and have had

Minor comments:

1) Course is referred to as both CHEM 104 and CHEM 111 in both format and syllabus. For

Change implemented.